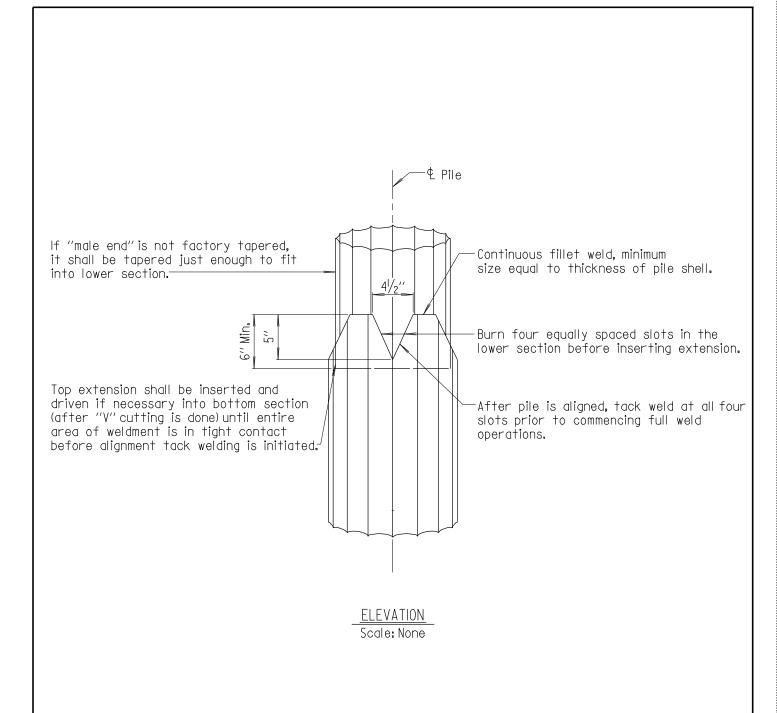


DATE: 8-24-76

1-22-01



Note:

No pile splicing to be allowed on any portion of pile that is to remain exposed in completed structure.

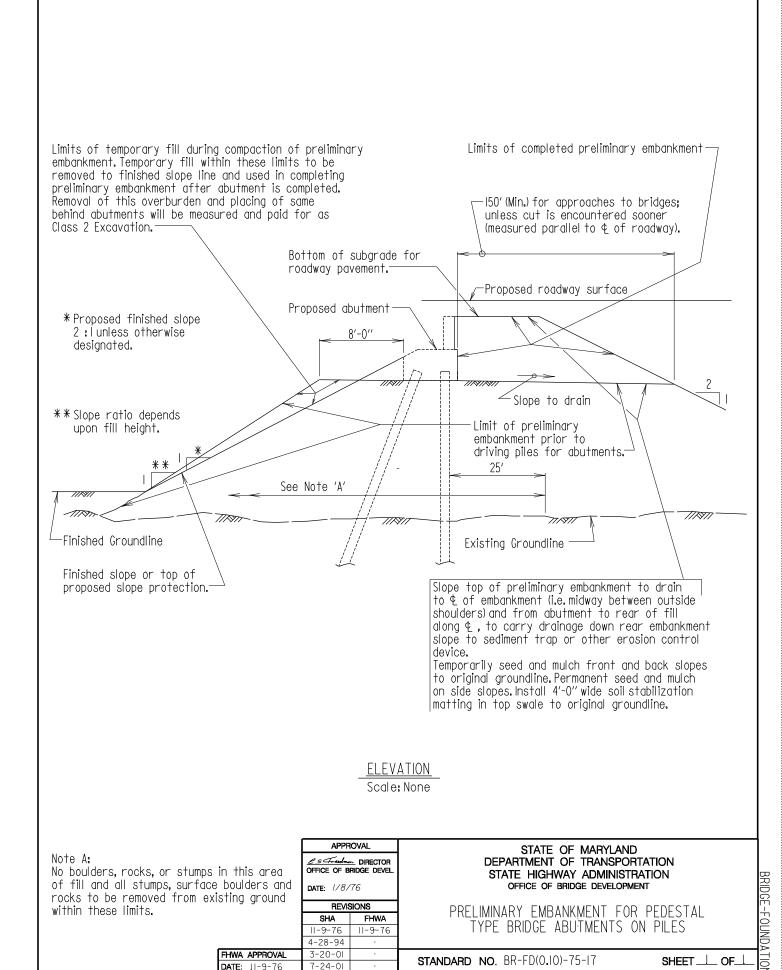
APPROVAL		
C.5 Tredom DIRECTOR OFFICE OF BRIDGE DEVEL.		
DATE:	6/20/75	

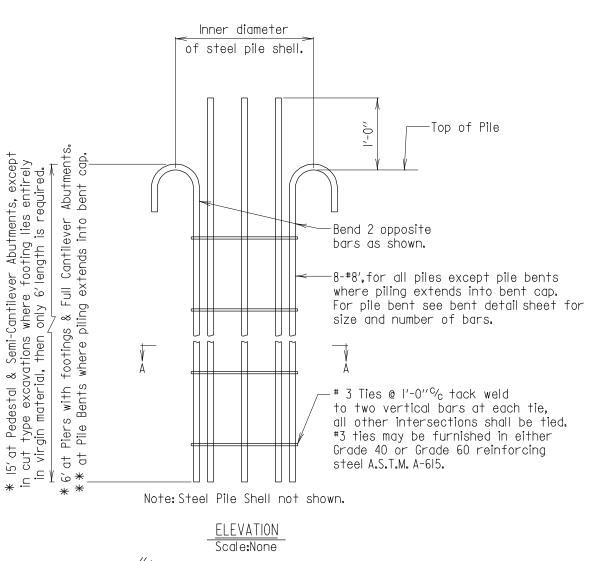
REVISIONS		
SHA	FHWA	

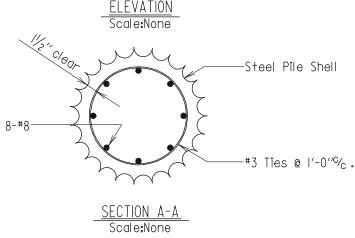
STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF BRIDGE DEVELOPMENT

SPLICE FOR CAST-IN-PLACE CONCRETE PILE SHELL

FHWA APPROVAL
DATE: 8-24-76
STANDARD NO. BR-FD(0.02)-75-16







Note:

I.* Unless otherwise indicated on substructure contract drawing.

2.**Full height of pile above finished groundline plus 6' unless otherwise indicated on substructure contract drawings.

3.Unless otherwise indicated on other Contract Plans or in the Special Provisions the Steel Pile Shell shall be #5 gauge. This will apply to pile shells with or without deformations.

4.Cage required for all pile shells with or without deformations.

FHWA APPROVAL

DATE: 12-19-79

APPROVAL		
OFFICE OF BRIDGE DEVEL.		
DATE: 8/9/79		
REVISIONS		

REVISIONS
SHA FHWA
6-15-84 II-8-84
6-16-92 ...
10-27-92 ...
1-22-01 ...

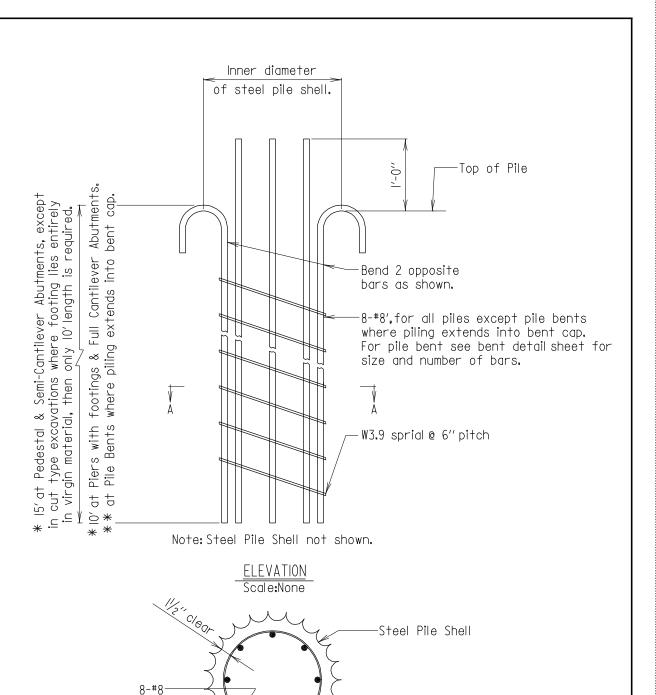
STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF BRIDGE DEVELOPMENT

DETAILS FOR CAST-IN-PLACE CONCRETE PILES

STANDARD NO. BR-FD(0.03)-79-81

SHEET ____ OF___

BRIDGE-FOUNDATI



Note:

I.* Unless otherwise indicated on substructure contract drawing.

 2.**Full height of pile above finished groundline plus 10' unless otherwise indicated on substructure contract drawings.

3.Unless otherwise indicated on other Contract Plans or in the Special Provisions the Steel Pile Shell shall be a minimum #5 gauge. This will apply to pile shells with or without deformations.

4.Cage required for all pile shells with or without deformations.

5. All materials and dimensions shown are minimums, Engineer shall design.

FHWA APPROVAL

SECTION A-A
Scale:None

FOR OFFICE USE ONLY

W3.9 sprial @ 6" pitch

APPROVAL

2.5 — DIRECTOR
OFFICE OF BRIDGE DEVEL

DATE: 8/9/79

REVISIONS

SHA FHWA
6-16-92

10-27-92

1-22-01

10-9-07

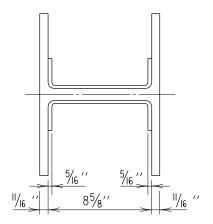
DATE: 12-19-79

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF BRIDGE DEVELOPMENT

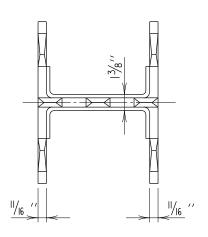


DETAILS FOR CAST-IN-PLACE CONCRETE PILES

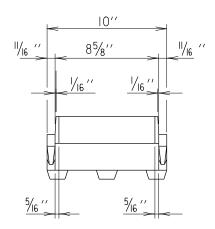
STANDARD NO. BR-FD(0.03)-79-8I(L)







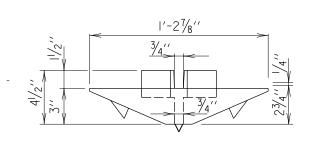
Scale: $\frac{PLAN}{1/2''} = 1'-0''$



Scale: $1\frac{\text{ELEVATION}}{2^{\prime\prime}} = 1^{\prime} - 0^{\prime\prime}$

FHWA APPROVAL

DATE: 1-16-80



Scale: $1\frac{\text{SIDE VIEW}}{2^{\prime\prime}}$

Size of Pile	Size of 45 Bevel	Size of Groove Weld
10 × 42	1/4	5/16
10×57	1/4	5/16

I.Material: Cast Steel A.S.T.M. A27 65/35. All fillets 3/8". 2.Point to be welded to pile with a

continuous single bevel groove weld along outside face of flange. Exterior face of flange to be flame cut beveled at 45,° prior to welding.

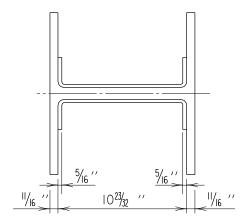
3.For each shipment of points a foundry certificate verifying material meets the Specifications is required.

APPROVAL		
C.S Freedom DIRECTOR OFFICE OF BRIDGE DEVEL		
DATE: 10/17/79		
REVISIONS		

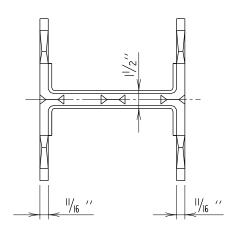
FHWA SHA 12-13-79 1-29-80 STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF BRIDGE DEVELOPMENT

TOOTHED PILE POINT FOR 10" H PILE

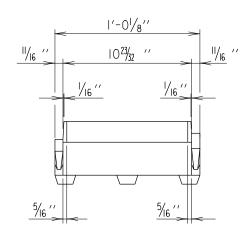
STANDARD NO. BR-FD(0.07)-79-87



<u>PLAN</u> Scale: |¹/₂'' = |'-0''



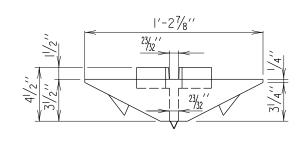
Scale: $\frac{PLAN}{1/2''} = 1'-0''$



Scale: $1\frac{\text{ELEVATION}}{2^{"}}$

FHWA APPROVAL

DATE: 1-16-80



Scale: $1\frac{\text{SIDE VIEW}}{2^{\prime\prime}}$

Size of Pile	Size of 45 Bevel	Size of Groove Weld
12 × 53	1/4	5/16
12×74	5/16	5/16

I.Material: Cast Steel A27 65/35. All fillets %". 2.Point to be welded to pile with a

continuous single bevel groove weld along outside face of flange. Exterior face of flange to be flame cut beveled at 45,° prior to

 For each shipment of points a foundry certificate verifying material meets the Specifications is required.

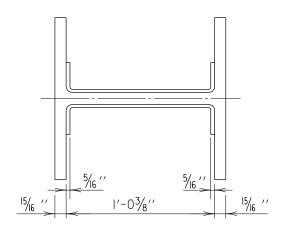
APPROVAL
C.S. Freedom DIRECTOR OFFICE OF BRIDGE DEVEL
DATE: 10/17/79

REVISIONS		
SHA	FHWA	
12-13-79	1-29-80	
4-28-94		

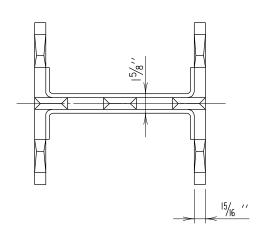
STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF BRIDGE DEVELOPMENT

TOOTHED PILE POINT FOR 12" H PILE

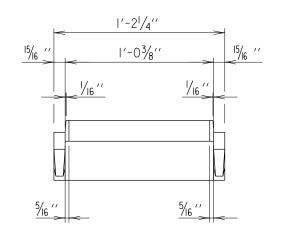
STANDARD NO. BR-FD(0.08)-79-88



Scale: $\frac{PLAN}{|'/2|''} = |'-0|''$



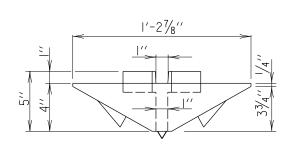
Scale: $\frac{PLAN}{|'/2''|} = |'-0''|$



Scale: $1\frac{\text{ELEVATION}}{2^{\prime\prime}} = 1^{\prime} - 0^{\prime\prime}$

FHWA APPROVAL

DATE: 1-16-80



Scale: $1\frac{\text{SIDE VIEW}}{2^{\prime\prime}}$

Size of Pile	Size of 45 Bevel	Size of Groove Weld
14 × 73	1/4	5/16
14 × 89	5/16	5/16
14 x 102	3/8	3/8
14 × 117	3/8	7/16

I.Material: Cast Steel A.S.T.M. A27 65/35. All fillets %". 2.Point to be welded to pile with a

continuous single bevel groove weld along outside face of flange. Exterior face of flange to be flame cut beveled at 45,° prior to welding.

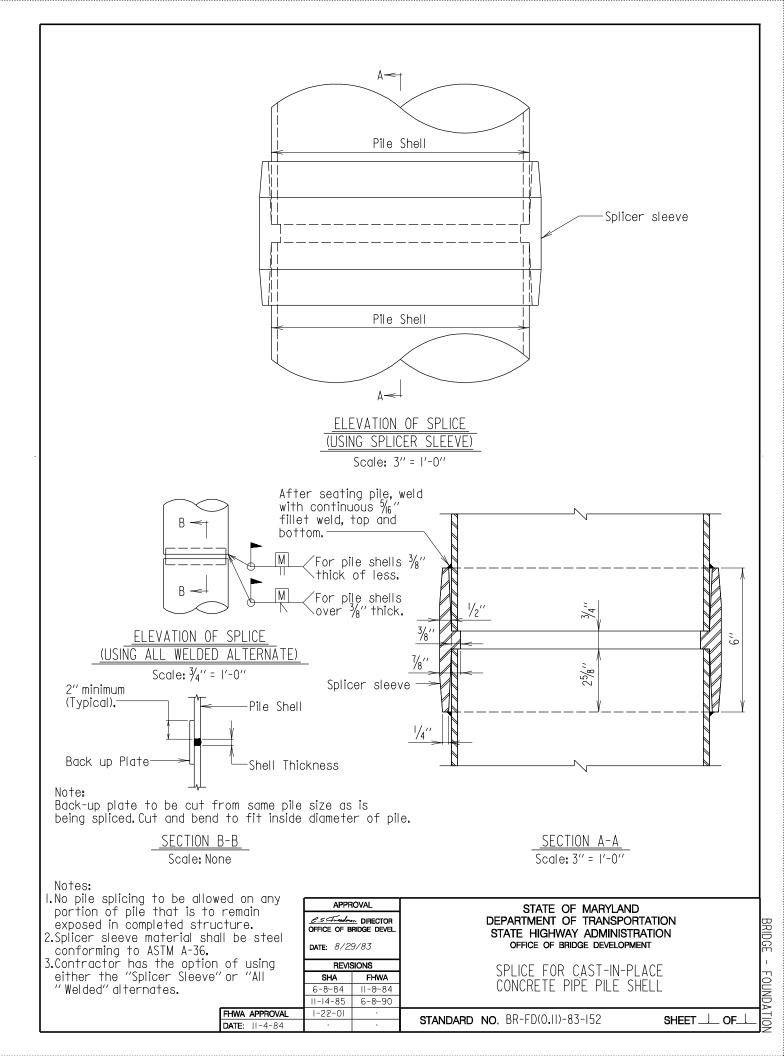
 For each shipment of points a foundry certificate verifying material meets the Specifications is required.

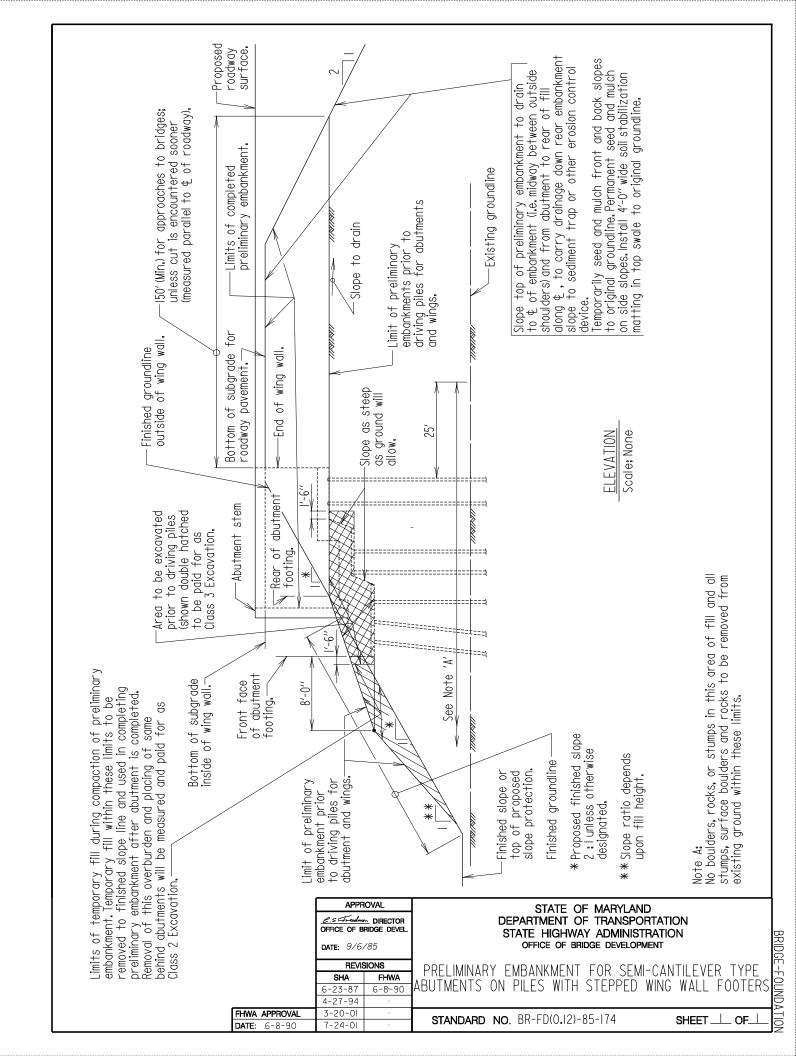
	APPROVAL
	C.S. Freedom DIRECTOR OFFICE OF BRIDGE DEVEL
	DATE: 11/14/79
	REVISIONS

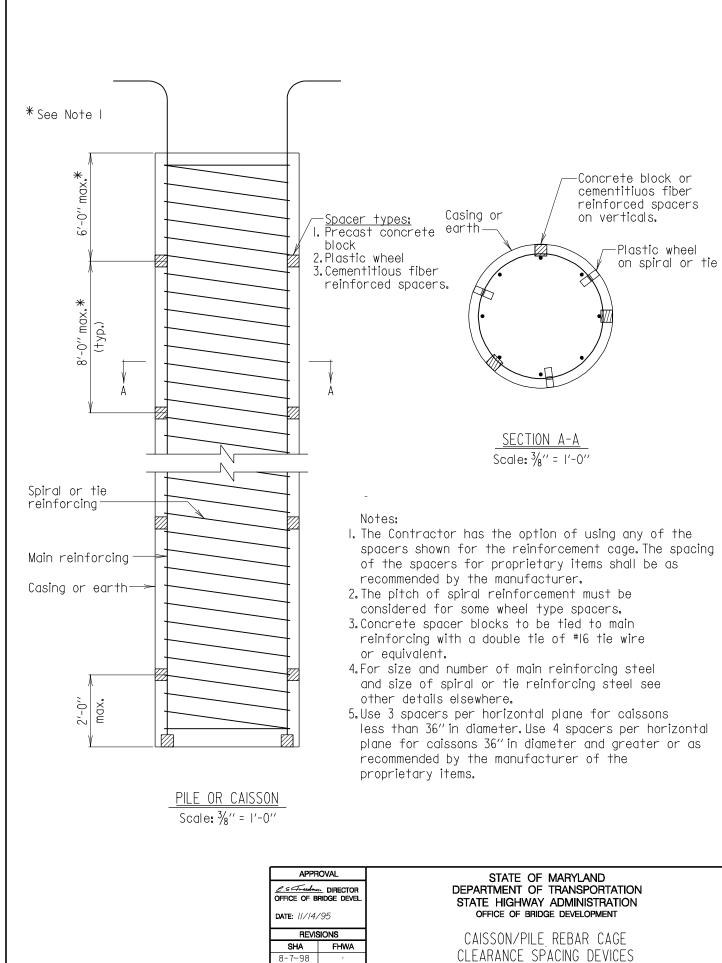
SHA FHWA 12-13-79 1-29-80 STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF BRIDGE DEVELOPMENT

TOOTHED PILE POINT FOR 14" H PILE

STANDARD NO. BR-FD(0.09)-79-89



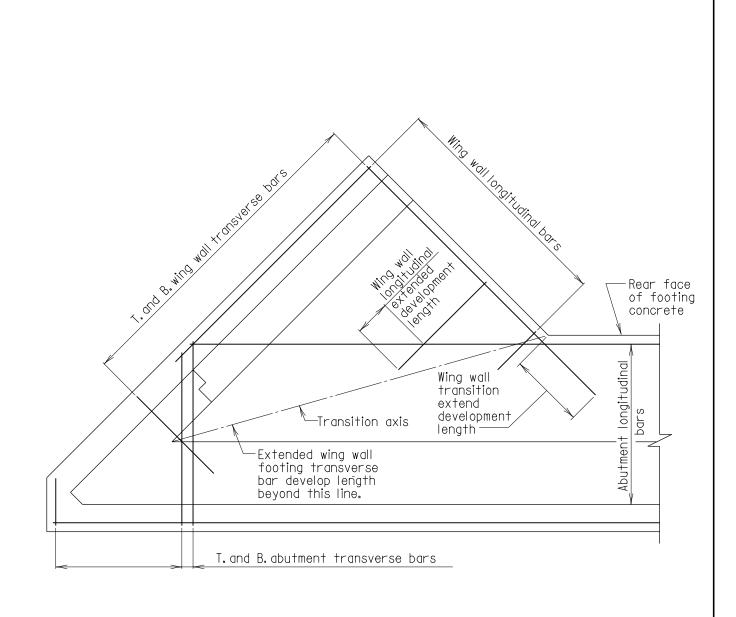




STANDARD NO. BR-FD(0.13)-95-310

FHWA APPROVAL

BRIDGE - FOUNDATION



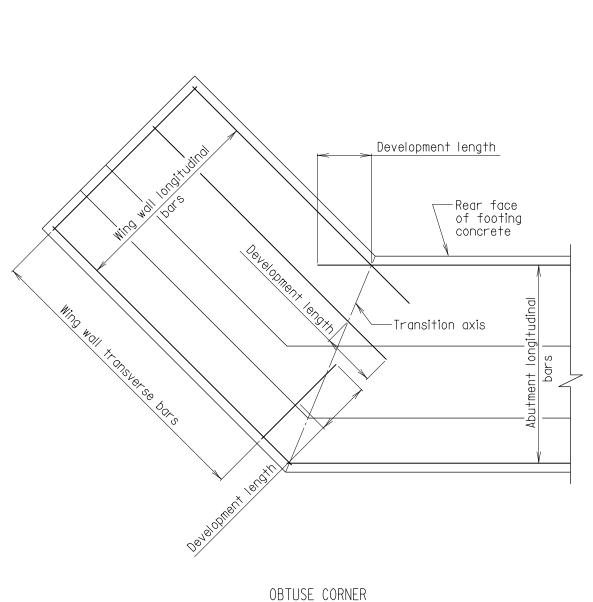
ACUTE CORNER

Scale: 3/8" = 1'-0"

FOR OFFICE USE ONLY

	DATE: 11/17/97		STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF BRIDGE DEVELOPMENT	פעוטטב
	REVIS SHA ·	SIONS FHWA	SKEWED ABUTMENT AND WING WALL FOOTING INTERSECTION	- LOUIND
FHWA APPROVAL DATE:			STANDARD NO. BR-FD(0.14)-97-322 SHEET OF_2_	
				-

BRIDGE - FOUNDATION



OBTUSE CORNER

Scale: $\frac{3}{8}$ " = 1'-0"

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APPROVAL

DIRECTOR
OFFICE OF BRIDGE DEVEL

DATE: ||//|/97|

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DATE: | STANDARD NO. BR-FD(0.14)-97-322

SHEET 2 OF 2

NO. BR-FD(0.14)-97-322

SHEET 2 OF 2

NO. BR-FD(0.14)-97-322